1 SERVO SYNCHRONIZATION VALIDATION TECHNIQUES BASED ON BOTH SERVO SYNCH MARKS AND WEDGE IDENTIFIERS IN A ROTATING MEDIA 2 3 STORAGE DEVICE 4 5 **ABSTRACT** Disclosed is a rotatable media storage device (RMSD) connectable to a host. The RMSD 6 7 include a movable head to perform track following, a disk, and a synch mark detection circuit. The disk includes a circumferential track that has a plurality of embedded servo wedges utilized 8 9 in track following. The synch mark detection circuit has a first detection mode and a second 10 detection mode. In the first detection mode, the synch mark detection circuit detects a servo synchronization signal based on the head reading a SSM of a servo header of an embedded servo 11 wedge. In the second detection mode, the synch mark detection circuit detects a servo 12 synchronization signal based on the head reading a SSM and a wedge identifier of a servo header 13

of an embedded servo wedge. The wedge ID is utilized in conjunction with the SSM to validate

the servo synchronization signal.

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